

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-27. (Canceled)

28. (Currently Amended) A fixing device comprising:  
a heating roller made of a magnetic metal;  
a coil comprising a plurality of twisted ~~wire rods~~ wires;  
an exciting circuit that applies a high-frequency current to the coil;  
a core, comprising a heat resistant resin, arranged inside the heating roller,  
wherein the core further comprises at least two grooves, each of the grooves being formed on a surface of the core in the vicinity of each of two end portions thereof, and  
wherein the coil is wound on the core longitudinally, and parts of the coil are buried in the grooves so that a distance between the outer most part of the coil wound on the core and the inner surface of the heating roller is constant.

29. (Previously Presented) A fixing device as set forth in claim 28, wherein the two end portions of the coil, which serve as outgoing line portions of the coil going and returning to the core, are taken out of the core with the two end portions being attached to each other.

30. (Previously Presented) A fixing device as set forth in claim 29, wherein the two end portions are parallel to each other.

31. (Previously Presented) A fixing device as set forth in claim 29, wherein the two end portions are twisted.

32. (Previously Presented) A fixing device as set forth in claim 29, wherein the coil is formed of an insulating wire.

33. (Canceled)